MALENEV, Fedor Yefimovich; ALEKSEYEV, Yu.V., red.; BARANOVA, L.G., tekhn. red.

[Microelements in phytopathology] Mikroelementy v fitopathologii. Leningrad, Izd-vo sel'khoz. lit-ry, zhurnalov i plakatov, 1961. 119 p.

(Plant diseases) (Trace elements)

USSR/Plant Diseases. Diseases of Cultivated Plants.

0

Abs Jour: Ref Zhur-Diol., No 5, 1958, 20686.

B was manifested only on root resistance, and of Mn -- on leaf resistance. The effect of Zh was slight, while Cu and B caused a greater increase in root resistance to bacterioses -- the common kind and black scab -- than Mn and Zn. Cu and B (+37 and 33%) had the most beneficial effect on the harvest, Mn (+29%) had less, and Zn still less. Of all the rethods tested for supplying the potato roots with microelements, the best was treating the roots before sowing. In addition, it is recommended that B be added to the soil as a supplement. Organic fertilizers and soil moisture heighten the action of the microelements.

Card : 3/4

USSR/Plant Diseases. Diseases of Cultivated Plants.

Abs Jour: Ref Zhur-Diol., No 5, 1958, 20686.

tato leaves (200 ng. per liter) every 7-10 days, starting on June 25, with Na<sub>2</sub>Di<sub>4</sub>C<sub>7</sub>, CuSOl<sub>4</sub>, ZnSOl<sub>4</sub>, and KhnOl<sub>4</sub> salt solutions, and also of applying these salts (100 ng.) to the soil below the root when roots were being set out to develop fungoid (Phytophthora infestans D.B., Rhizoctonia solani Kuhn.) and bacterial diseases (Bacterium xanthochlora Schust., Dacillus phytophthorus Appel, Bacterium sepedonicum Spieck and others). The following varieties were tested: Kobbler -- early maturing, Derlikhingen -- medium maturing, hybrid No. 398 and Kobbler X Yubel' -- medium late maturing. The greatest increase in resistance of the roots and leaves to phytophthorosis derived from the use of Cu. The influence of

0

Card : 2/4

USSR/Plant Diseases. Diseases of Cultivated Plants.

Abs Jour: Ref Zhur-Biol., No 5, 1958, 20686.

Author : Maleney F. Ye.

Inst : AS, LatvSSR.

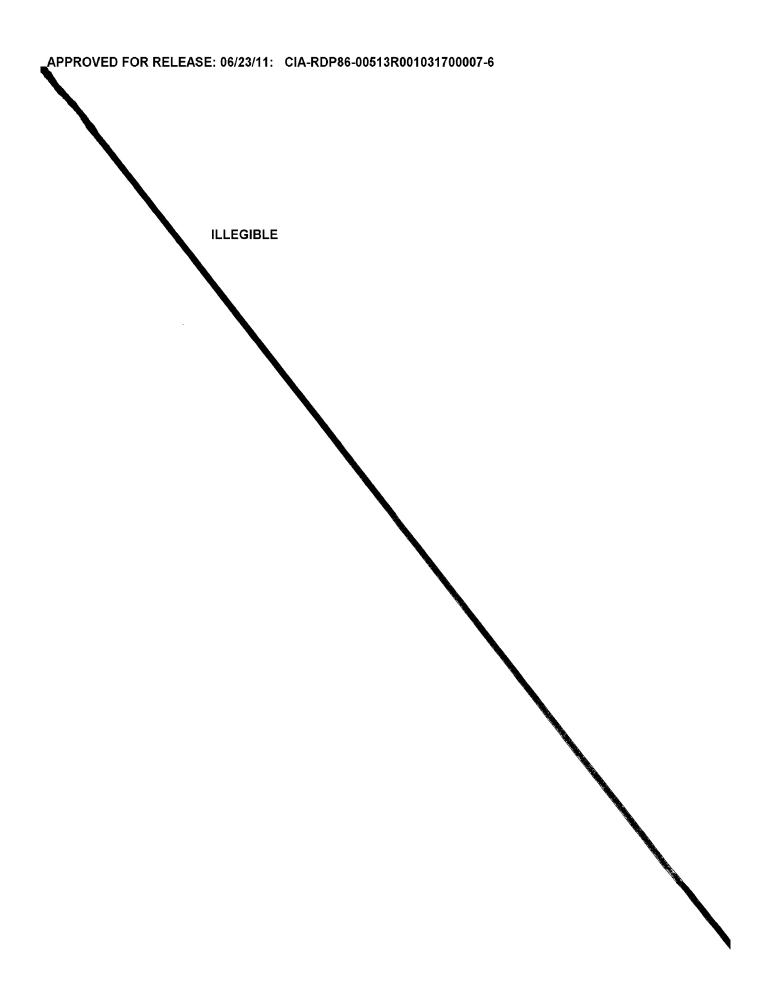
Title : The Influence of Boron, Copper, Manganese, Zinc on the Resistance of the Potato to Phytophthora and Other Diseases.

Orig Pub: Sb: Mikroelementy v s. kh. i meditsine. Riga. Akad Nauk LatvSSR, 1956, 429-436.

Abstract: A series of laboratory and field experiments conducted from 1950 to 1953 in the Leningrad Agricultural Institute studied the influence of root treatment before sowing (germination in sawdust treated with solution) and of sprinkling the po-

card : 1/4

MALENEV, F.Ye., kandidat sel'skokhozyaystvennykh nauk. Meadow mushrooms (Psalliota campestris) are destroyers of buildings. Priroda 43 no.2:119 F \*54. (MLRA 7:3) 1. Leningradskiy sel'skokhozyaystvennyy institut. (Mushrooms)



## APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700007-6

	Pub. 86 - 31/36
intione t	Maleney, J., E., Cand. of Agric. Sc.
Mela 1	Meadow mulhrooms destroyers of constructions
New codical p	Priroda 2 page 119, Peb 1954
ADB TECT 1	The destrictive effect of mendow mushrooms (Pasiliota campestris) on various wood, dement and masonry atructures is discussed.
Institution i	The Agricultural Institute, Leningrad
Submitted :	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700007-6

MALENCZYK, J.

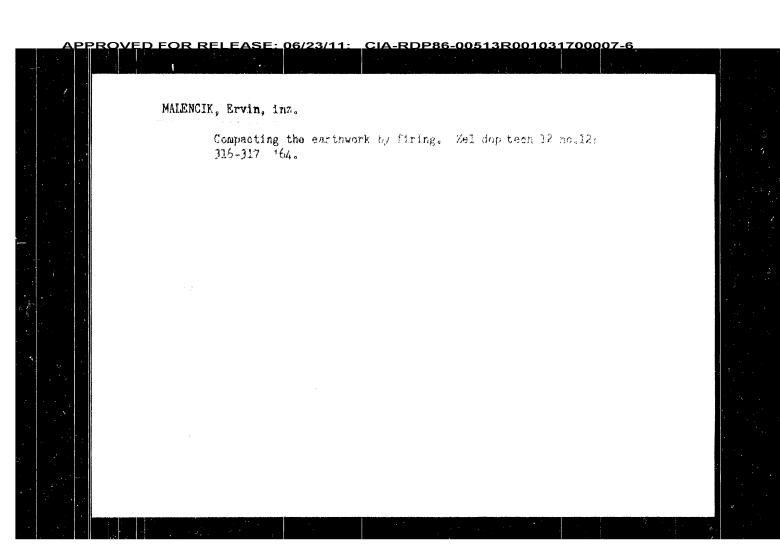
Shoemaking machinery. Pt.5. (To be contd.) p.130
(PRZEGLAD SKORZANY, Vol. 12, No. 5, May 1957, Lodz, Poland)

So: Monthly List of Fast European Accessions (EEAL) LC, Vol. 6, No. 9, Sept. 1957, Uncl.

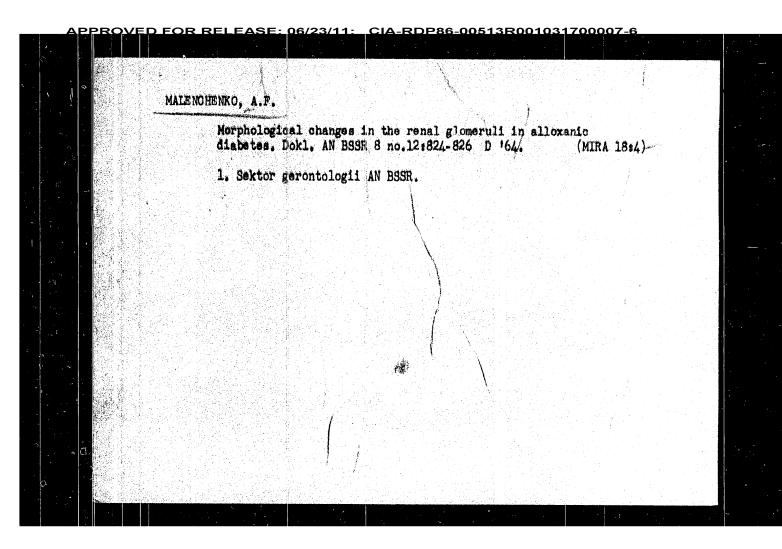
CIA-RDP86-00513R001031700007-6 MALENCZXK, J. Shoemaking machinery, Pt. 3. (TObe contd.) p. 26. (Przeglad Skorzany, Vol. 12, No. 1, Jan. 1957, Krakow, Poland) Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 8, Aug 1957. Uncl. SO:

MALENCZAK, J. Shoe machinery; insole tacking machine. P. (231) [Przeglad Skorany. Vol. 11, no. 9, Sept. 1956, Lodz, Poland) Monthly Index of East EuropeanAccession (EFAI) LC. Vol. 7, no. 2, February 1958

A machine for clasping flexible parts. p. 202 (Przeglad Skorany. Vol. 11, no. 8, Aug. 1956, Lodz, Poland) Monthly Index of East European Accessions (FFAI) LC. Vol. 7, no. 2, February 1958



MALENCIK, Ervin, inz. Excessive rail abrasion and its reduction. Zelez dop tech 11 no.1:5-6 '63. MALENCHENED, A.F. Punctional scate of kidneys in sugar diabetes process. North aN BEGR. Ser. bital. nac. 50.48230-132 16. (erfba 18:11)



MALENDERC, N. Ye.; YUKINA, A. L.; YERMILOVA, M.M. Catalytic dehodration in the presence of zirconium phosphate. Vest. Mosk. cm. Ser. 2. Knim. 20 nc. 3:31-35 My-Je 165. (MIRA 18:3) 1. Kafedra organisheskogo kataliza Moskovskogo universiteta.

10.16		an particular set a proper at the second	
	L 5063-66		
	ACCESSION NR: AP5025508		ativi sisumitati kingani muuni suoma ka maadan makka sa ka
	FeP04 was shown to be active homologs. The amounts of mo comparable to the yields obtain AlCl3 and FeCl3. In contrast considerable amounts of tars it reactions of acylation and of all structure were not detected. "Rossolovskiy and L. D. Ashkir 2 tables."	noalkylated products obtained in the presence of such we to the latter, the formation is not observed in the present kylation of benzene and its hard the authors take this oppor	d, ranging from 38 to 73%, arvidely employed catalysts as of dialkyl derivatives and of ce of FeP04. However, omologs by haloalkyls of norm tunity to thank Ye. N.
	ASSOCIATION: Moskovskiy go State University)	sudarstvennyy universitet in	a. M. V. Lomonosova ( <u>Moscov</u>
	SUBMITTED: 18Dec63	ENCL: 00	SUB CODE:
	NO REF SOV: 018	OTHER, 006	

EWT(m)/EPF(c)/EWP(j) ACCESSION NR: AP5025508 UR/0082/65/000/009/1565/1570 AUTHOR; Malenberg N. Ye.; Balandin, A. A. TITLE: Catalytic properties of iron orthophosphate. Report No. 2. Alkylation of benzene and its homologs and derivatives SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 9, 1965, 1565-1570 TOPIC TAGS: iron compound, alkylation, alkylabenzene // ABSTRACT: The catalytic properties of iron orthophosphate FeP04 were studied in the alkylation of benzene and its homologs with haloalkyls of various structures. Benzene, coluence, ethylbenzence, cumence, chlorobenzence, and phenol were alkylated with sec-propyl chloride and bromide, and with tert-butyl chloride. The condensation of benzene and its derivatives with aliphatic monohalo derivatives took place as follows: CeHe 4 RX + CeHeR + HX Card 1/2

BALANDIN, A.A., akademik; KUKINA, A.I., MALENBERG, N.Ye.; YERMILOVA, M.M. Catalytic properties of zimponium phosphate. Joki. AN SSER 181 (MIRA 18:5) no.4:851-852 Ap 165. 1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.

BALANDIN, A.A.; KUKINA, A.I.; MALENBERG, N.Ye. Catalytic properties of iron phosphate. Report No.1: Dehydration of alcohols. Izv.AN SSSR Otd.khim.nauk no.4:574-581 Ap 162. (MIRA 15:4) 1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.

(Alcohols) (Dehydration (Chemistry)) (Iron phosphate)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700007-6

BOIDYREV, V.G.; KOPROVA, L.I., MALEKVICH, M.S.

Allowing for variations in vertical temperature and humidity profiles in determining the earth's surface temperature from the leaving radiation. Izv. AN SSSR. Fiz. atm. i okean. 1 no.7:703-714 Jl '65. (MIRA 18:8)

1. Institut fiziki atmosfery AN SSSR i Mirovoy meteorologicheskiy tsentr.

KHAR'KOV, Vladimir Afanas'yevich; KURASHEV, Leonid Andreyevich; MALEKSENKO,
Pakr. Makrayanich; KOLESNIKOV, F.M., redaktor; PIMCHENKO, S.I.,
tekhnicheskiy redaktor

[General overhauling of oil and gas wells in the Grozny Oil
Administration fields] Opyt kapital'nogo remonte neftinnykh i
gasovykh skvazhin na promyelakh ob"edineniia "Grozneft'." Groznyi,
Groznenskoe kn-vo, 1955. 53 p. [Microfilm] (MIRA 10:4)

(Oil wells) (Ges, Matural)

MAIERHONOV, D. C.

Intershop specialization and labor productivity. Sots. trud 4 no.4:
105-107 Ap '59.

1.Starshiy inzhener po organizatsii truda tkatskogo proizvodstva
Moninskogo kombinata.

(Monino--Textile industry)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700007-6

BITUNOV, Ye.I.; KAPRALOV, M.K.; MALEKHONOV, D.P.

Specialized gaitings used in weaving. Tekst. prom. 18 no.9: 7-10 S 158. (MIRA 11:10)

1. Zaveduyushchiy tkatskim proizvodstvom Moninskogo kamvol'nogo kombinata (for Bitunov). 2. Nachal'nik tsekha avtomaticheskikh tkatskikh stankov (for Kapralov). 3. Starshiy inzhener po normirovaniyu tkatskogo proizvodstva (for Malekhonov).

(Weaving)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700007-6

KOMINEK, Antoni, MALEK-STRUSINSKA, Jadwiga

Erythema infectiosum. Pediat. polska 33 no.5:571-575 May 58

1. Z Kliniki Chorob Zakaznych Wieku Dzieciecego A.M. w Marszawie Kierownik: prof. dr med. J. Bogdanowicz i z Poradni Dzieciecej Rejonowej Przychodni ul. Leczno 17. Kierownik: dr med. W Szotowa. Adres: Warszawa, ul. Wolska 37. Klinika Chorob Zakazncy Wieku Dzieciecego. (ERYTHEMA, in inf. & child. infectiosum (Pol)) MALEK, Zdenek; MRNKA, Mircelav

Chtaining gallium from whate materials in the production of germanium. Chem prum 14 no.94256-258 S 162.

1. Chair of Technology of Nuclear Fuels and Radiochemistry, Higher School of Chemical Technology, Frague.

L. 1851.46 PMP(t) T.P(c) JD

AC. NN: APGINZES SOURCE CODE: CZ/0034/65/000/003/0220/0220

AUTHOR: Malek, Z. (Graduate chemist); Mrnks, M. (Engineer)

ORC: none

TITIE: Mathod for recovery of gallium contained in wastes of germanium production SOURCE: Hutnicks Listy, no. 3, 1965, 220

TOFIO TAGS: gallium, germanium, metal refining

ABSTRACT: The article is an abstract of Czechoslovak Patent application Class 40a 41/00. PV 4668-63, dated 20 August 1963. The method is similar to the one used to obtain gallium from the anode alloy during Al refining, as described in Russian Patent 127 421. Ge is extracted from the wastes by a 0.1 - 0.5 M

Solution of a high-molecular weight amine, such as N-octyl-amine, Or tri-N-octylamine in an inert solvents from a medium of 3-6 M

HGL, and is resutracted by Lye or water. [JPRS]

SUB CODE: 11 / SURM DATE: none

MALEK, Zdenek, CSc.; MASTNER, Jiri, CSc. Basic properties of the Tandel. Sdel tech 12 no. 3:82-85 Mr 164. MALEC, Zd. Electromechanical synthetizer of periodic courses. Slaboproudy obzor 24 no.2:114-116 F '63. MALEC, Zd. A device for measuring the phase angles between the time vectors of tension and current. Slaboproudy obzor 24 no.1:45-47 Ja '63. FRAIT, Z.; KAMEERSKY, V.; ONDRIS, M.; MALEK, Z.

Effective magnetization and uniaxial anisotropy of permalloy films. Chekhosl fiz shurnal 13 no.4:279-285 '63.

1. Fyzikalni ustav, Ceskoslovenska akademie ved, Praha.

<u> APPROVED FOR RELFASE: 06/23/11: \_CIA-RDP86-00513R001031700007-6</u>

| S/181/63/005/003/045/046 | Frequency dependence of the coercive ... | S/181/63/005/003/045/046

1958).  $\alpha$  is the activation field  $(1.95\cdot10^3 \text{v/cm}, \mu \text{ the mobility})$   $(6.0\text{cm}^2/\text{v·sec})$ . With  $\alpha$  = 2.4·10 $^3$ v/cm and  $\mu$ =1.64 cm $^2/\text{v·sec}$ , agreement was complete. There is 1 figure.

ASSOCIATION: College of Science and College of Education University of

Baghdad, Irak (Al Ali, Salim); Fizicheskiy institut Chekhoslovatskiy Akademii nauk, Praga (Physics Institute of the Czechoslovakian Academy of Sciences, Prague)

(Malek, Fousek)

SUBMITTED: December 4, 1962

Card 2/2

S/181/63/005/003/045/046 B102/B160

AUTHORS:

Malek, Z., Fousek, J., Al Ali, N. S., and Salim, A. J.

TITLE:

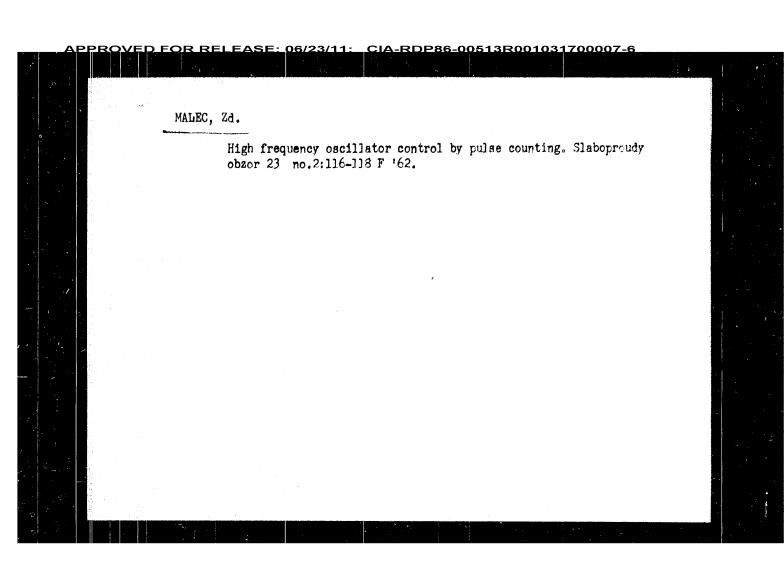
Frequency dependence of the coercive field of

triglycinesulfate crystals

PERIODICAL: Fizika tverdogo tela, v. 5, no. 3, 1963, 961-962

TEXT: In a previous paper (Proc. Phys. Soc., 80, 1199, 1962) the authors showed that triglycinesulfate (TGS) displays an anomalous increase in with repolarization at very low current values and that even at very low frequencies (4) there is marked e-dependence of the coercive field  $E_c$ . But  $E_c$  depends not only on the frequency but also on the field amplitude. Now the dependence of  $1/E_c$  on the amplification rate(dE/dt from 0 to 100 v/cm·min) was measured for TGS crystal plates of thickness = 1 mm, to which silver electrodes (0.8 cm² area) were applied in vacuo. With linearly increasing field amplitude  $1/E_c$  was found to drop linearly with rising dE/dt, according to  $E_c = \alpha/\ln(E_c^{\mu}/2.6 \cdot \cdot)$  (J. Appl. Phys. 29, 1742, Card 1/2

MALEC, Zd. Use of a transistor as temperature sensing device. Slaboproudy obzor 23 no.7:415-417 Jl '62. MALEC, Zd. Some possibilities for using p-n-p-n diodes in circuits. Slaproudy obzor 23 no.6:355-357 Je '62.



Effects of the extraction medium... Z/009/62/000/006/001/002 E112/E153

a correlation between the dielectric constant of the solvent and the extraction coefficient was established. Solvents with high dielectric constant reduced the extraction coefficient. However, the chemical nature of the solvent proved also of decisive importance. Chloroform, for instance, produces adducts with TOA, probably by hydrogen bonding with the mobile H of CHCl3 and extraction of uranyl sulfate is consequently far below 100%. It is suggested to employ solvents which are completely inert to amines, but have a low dielectric constant, such as benzene or carbon tetrachloride.

There are 5 figures.

ASSOCIATION: Vysoká škola chemickotechnologická, Praha, katedra

technologie jaderných paliv a radiochemie

(University of Chemical Technology, Department of

Nuclear Fuels and Radiochemistry, Prague)

SUBMITTED: December 29, 1961

Card 2/2

RDP86-00513R001031700007-6

2/009/62/000/006/001/002 E112/E153

Mrnka, Miroslav, and Malek, Zdeněk AUTHORS:

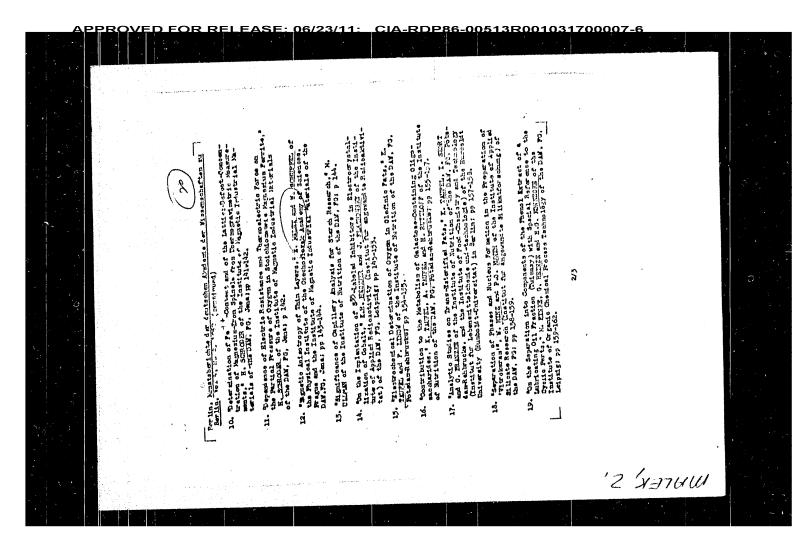
Effects of the extraction medium on the recovery of TITLE:

uranyl sulfate by means of tri-n-octylamine

PERIODICAL: Chemický průmysl, no.6, 1962, 297-300

The following principal parameters controlling the extraction of uranyl sulfate from a sulfate medium by means of tri-n-octylamine (TOA) were determined. concentration with respect to organic solvent medium on extraction performance. Solvents investigated were benzene, chloroform and carbon tetrachloride. Concentration of H2SO4 in aqueous phase was kept constant. Result: extraction isotherms were S-shaped. 2) Effects of initial  $H_2SO_4$ -concentration on the extraction coefficient increases with increased H<sub>2</sub>SO<sub>4</sub>, to reach maximum at 0.05 M. Higher concentrations reduce the extraction. It is postulated that the uranyl sulfate-TOA-complex is displaced from the organic phase by increased H2SO4-concentrations. 3) Effect of sulfate ions: the extraction coefficient decreases with increased sulfate ion concentration. 4) Effect of solvent: Card 1/2

JANKU, Jan, inz.; MAIEC, Zdenek, inz. Outlook for digital automation. Part 3. Automatizace 5 no.4:98-102 Ap \*62. JANKU, Jan, inz.; MALEC, Zdenek, inz. Elements for digital autometion. Automatizace 5 no.2:34-38,46 F 162.



MALEC, Zd. Water-level surge recorder. Slaboproudy obzor 22 no.12:765-768 D 161. (Electronic measurements) (Water)

MALEC, Zd. Mechanical resonance generators and relays. Slaboproudy obzor 22 no.10:640-642 0 161.

23572

Z/039/61/022/004/001/003 E024/E335

The Tunnel Diode

applied to the input. The response of the circuit to a 1 Mc/s sinusoidal input is shown in Fig. 17b. Fig. 17c shows the response to a 3 Mc/s signal. The rise time was measured as 20 musec. The simple circuits, however, are somewhat unstable. The advantages of the tunnel diode are mainly its usefulness for high frequencies, its independence of temperature and radiation, low noise level, the relative ease of manufacture and the probable stability of its characteristics. The difficulties encountered are mainly due to the fact that the tunnel diode is a dipole and therefore stages within a circuit have to be isolated by non-reciprocal elements or other arrangements. There are 17 figures and 14 references: 1 Czech and 13 non-Czech. The four latest English-language references quoted are: Ref. 3 - L. Esaki, Solid State Physics, 1960, p. 514; Ref. 5 - M.E. Hines, Bell System Technical Journal, 1961, Vol. 39, No. 31 Ref. 10 - I.A. Lesk et al, Electrical Engineering, 1960, Vol. 79, No. 4; Ref. 11 - E. Goto, Trans. IRE EC-9, 1960, No. 1.

Card 6/10

23572

Z/039/61/022/004/001/003 E024/E335

The Tunnel Diode

 $|R_n| > 1.8$  ohm. Fig. 14c shows the characteristic of a diode with  $|R_n| < 1.8$  ohm. In this case the characteristic curve is not fully traced because of instantaneous jumps. Fig. 14d shows characteristics rendered useless by oscillations of the diode in the measuring circuit. shows the characteristic of a reverse rectifier type diode. The tunnel diode can also be used in some simple circuits, such as the simple oscillator shown in Fig. 16a formed by a resistance  $R_1$  of 40-50 ohm, a wire-wound 6 ohm resistor  $R_2$ whose inductance is added to  $L_s$  so that the frequency given by this inductance and the junction capacity is smaller than the limiting frequency of the diode. A single battery and the tunnel diode are the further elements of the circuit. The oscillator gives a signal of about 100 mV at a frequency of 5-10 Mc/s. Similarly, a simple bistable circuit is shown in Fig. 17a. This circuit can be switched by a sinusoidal voltage

Card 5/10

23572 Z/039/61/022/004/001/003 E024/E335

The Tunnel Diode

each counting stage (Ref. 11 - E. Goto, Trans. IRE EC-9, 1960, No. 1). The most important parameters for the application of tunnel diodes are  $I_p$ ,  $U_p$ ,  $I_v$ ,  $\omega_m$ . The ratio  $I_p/I_v$ , together with the value of  $I_{p}$ , determine the range of negative resistance. The highest possible values of this ratio are desirable. The ratios at present achieved are between 5 and 10 for germanium diodes and between 10 and 15 for silicon diodes. In the measurement of DC characteristics, care must be taken to avoid oscillations and therefore the measuring circuit must have an output resistance smaller than The inductance of the circuit must also be strictly controlled because it is additive to  $L_{_{\mathbf{S}}}$  . Fig. 13 shows the circuit used for the oscillographic measurement of the AC characteristics and for the manual measurement of the DC characteristics. The output resistance of the circuit is 1.8 ohm. Figs. 14a and 14 b show the characteristic of a diode Card 4/10

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Z/039/61/022/004/001/003 E024/E335

The Tunnel Diode

frequency of the diode is given by Eq. (14) and is of the order of magnitude of Gc/sec:

$$\omega_{\rm m} = \frac{1}{R_{\rm n}C} \sqrt{\frac{R_{\rm n} - R_{\rm s}}{R_{\rm s}}}$$
 (14).

Tunnel diodes can be used in a variety of circuits and the paper discusses their use in amplifiers and in switching circuits. Because of its basic dipole nature it is difficult to use the tunnel diode in multistage amplifiers. The problem of isolating the stages has been successfully overcome only in the microwave region (Ref. 12 - Chirilian, P.M., Proc. IRE 48, 1960, No. 6). The difficulty of the bilateral character of the tunnel diode is also encountered in its application as a switching element in counting circuits. The system can be made unilateral by the use of several diodes in Card 3/10

23572

Z/039/61/022/004/001/003 E024/E335

The Tunnel Diode

consisting of an inductance  $L_{\rm g}$ , in series with the negative resistance  $R_{\rm n}$  shunted by the capacitance C. Further in series is the resistance  $R_{\rm g}$ . In the region of the working point  $U_{\rm o}$ ,  $I_{\rm o}$ , the characteristic curve can be linearised so that:

$$i - I_0 = -\frac{1}{R_n} (u - U_0)$$
 (1)

where  $R_n$  is the absolute value of the negative resistance at the working point. This resistance is shunted by the junction capacitance C, which we consider constant for small signals.  $R_s$  includes the resistance of the leads and losses in the crystal.  $L_s$  is the inductance of the leads. The impedance of the diode follows from the equivalent circuit. The limiting Card 2/10

23572 Z/039/61/022/004/001/003 E024/E335

9,4330

AUTHORS: Janku, Jan, Engineer and Malec, Zdenek, Engineer

TITLE: The Tunnel Diode

PERIODICAL: Slaboproudý obzor, 1961, Vol. 22, No. 4, pp. 194 - 201

TEXT: The tunnel diode differs from other active semiconductor components in that the transport of carriers occurs instantaneously by tunnelling rather than within a finite time determined by the mobility of minority carriers. Therefore, the tunnel diode is capable of working in the microwave region and its characteristic curve, with its negative resistance region, is practically independent of temperature within a wide range. The action of the tunnel diode is explained by the tunnelling of carriers from the conduction band of a highly doped n-region through a thin barrier into the valence band of a highly doped p-region. The small signal electrical properties of a tunnel diode in the region of negative resistance can be expressed by an equivalent circuit Card 1/10

JANKU, Jan, inz.; MALEC, Zdenek, inz.

Design elements for digital automation. Automatizace 4 no.11:332-336
N '61.

1. Vyzkumny ustav matematickych stroju, Praha.

(Electronic calculating machines)

23533

The Tunnel Diode

Z/037/61/000/004/001/004 E024/E435

48 (1960), 359; Hall, R.N.: Trans. IRE ED-7 (1960), 1.

ASSOCIATION:

VUMS, Praha (VUMS, Prague)

SUBMITTED:

October 10, 1960

Card 4/4

23533 Z/037/61/000/004/001/004 E024/E435

The Tunnel Diode

If the diode is used in a tuned amplifier, the above inequality must be reversed. The amplification factor of a tunnel diode can be very large but, in practice, tuned amplifiers are used to assure stability. In a switching circuit,  $R_0$  must be smaller than  $\left|R_N\right|$  . The switching time is of the order of  $10^{-10}~\text{sec}$  . Various switching circuits using tunnel diodes are discussed in Finally, the Ref. 4 (Lesk, I.A., Electronics 32 (1959), 60). authors discuss very simple circuits using tunnel diodes. simplest oscillator using such a diode consists of a 1.5 V battery in series with a resistance of 40 ohmsand a tunnel diode. diode is shunted by a wire-wound resistor of 6 ohms. oscillator produces a peak-to-peak signal of 100 mV at 5 to 10 Mc/sec. An equally simple bi-stable circuit can be constructed, Acknowledgments are expressed to Professor M. Vul, Moscow; Engineer J.Karlovský and Doctor H.Frank of VÚST, Prague, There are 13 figures, 2 tables and 22 references: 2 Soviet-bloc and 20 non-Soviet-bloc. The references to the four most recent English language publications read as follows: Pucel, R.A.: Electrical Manufacturing 65 (1960), 72; Scarr, R.W.A.: British Communications and Electronics 7 (1960) 254; Mead C.A. Proc. IRE Card 3/4

23533 Z/037/61/000/004/001/00<sup>4</sup> E024/E435

The Tunnel Diode

diode. Similarly, the inductance of the circuit must be kept as low as practicable. The voltage-current curve in the vicinity of zero voltage was found to be parabolic for some, but not for all, samples of tunnel diodes. The equivalent circuit of the tunnel diode for small signals in the region of negative resistance consists of the negative resistance  $R_{\rm N}$ , shunted by the capacitance C, and the resistance  $R_{\rm S}$  and inductance  $L_{\rm S}$  in series with these. The limiting frequency is given by

$$f_{\text{max}} = \frac{1}{2\pi R_N C(U)} \sqrt{\frac{R_N - R_S}{R_S}} \qquad (12)$$

The diode can be used in three different types of circuit: oscillators, amplifiers and switching circuits. In amplifier and oscillator circuits, the output impedance "seen" by the diode must be larger than the absolute value of the negative resistance. In an oscillator, the output impedance Ro must fulfil the further condition

condition  $R_0 \leq \frac{L}{C|R_N|}$ 

23533 **2/037/61/000/004/001/004** E024/E435

CIA-RDP86-00513R001031700007-6

9,4330 authors:

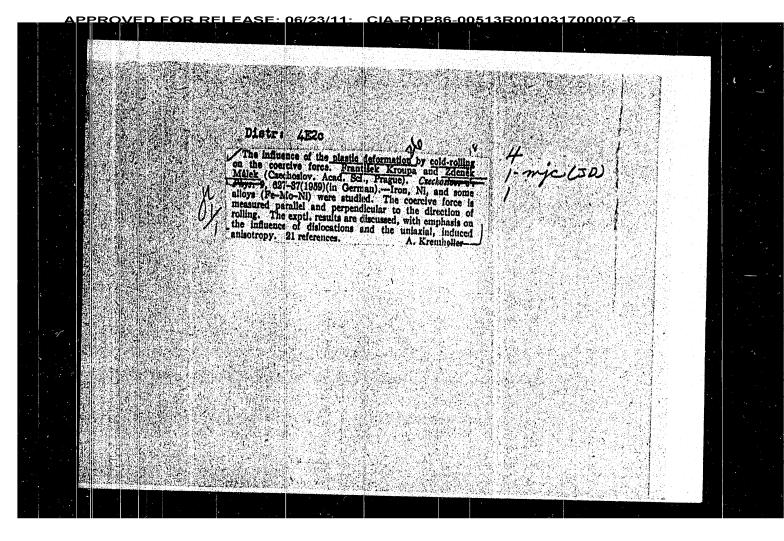
Marek, A., Malec, Z. and Janku, J.

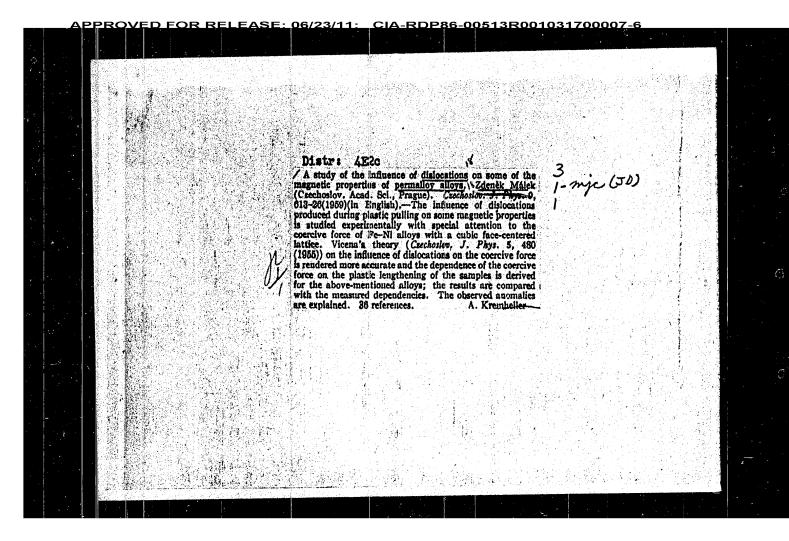
TITLE:

The Tunnel Diode

PERIODICAL: Československý časopis pro fysiku, 1961, No.4, pp.291-306

The current-voltage characteristics of tunnel diodes are usually explained with the aid of band theory and the tunnel effect. In order to account for the so-called excess current, localized energy levels in the barrier region have to be invoked. authors suggest a series of assumptions which might qualitatively explain the characteristic curves of tunnel-diodes, including the region of excess current, without localized levels. hypothesis has neither been worked out in detail nor has it been It includes the assumption of tunnelling tested experimentally. from the conduction band of the n-region into the conduction band of the p-region and from the valence band of the n-region into the The authors further discuss the valence band of the p-region. measurement of characteristic curves by d.c. methods. oscillations, the total resistance of the measuring circuit must be smaller than the absolute value of the negative resistance of the Card 1/4





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ACC NR: A

AP6027199

frequency dependence of the complex effective permittivity, dielectric nonlinearities of the tandel, and the thermoelectric force measured by a thermocouple on its surface. From the study of the frequency dependence of these parameters at various temperatures the conclusion is drawn that the probable cause of the original of mechanical vibrations in a tandel is the piezoeffect. The authors would like to express their gratitude to Ing. J. Janta of the Institute of Radio Engineering and Electronics, Czechoslovak Academy of Sciences, to Associate Professor Dr. J. Electronics, Czechoslovak Academy of Sciences, to Associate Professor Dr. J. Mastner of the Institute of Radio Engineering and Electronics for valuable discussions and suggestions, and to Associate Professor Dr. O. Taraba of the Czech Technical University for facilitating the ultrasonic experiments and helping to arrange them in his laboratory. The authors are also indebted to all their colleagues for their friendly help. Orig. art. has: 7 figures and 2 formulas. [Authors' abstract]

SUB CODE: 09/ SUBM DATE: 15Feb65/ ORIG REF: 009/ SOV REF: 001/

OTH REF: 009/

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L 45081-66 SOURCE CODE: CZ/0055/66/016/005/0409/0422 AP6027199 AUTHOR: Malek, Z.; Strajblova, J.; Fiala, J.; Novotny, J. ORG: Institute of Radio Engineering and Electronics, Czechosl. Acad. Sci., Prague TITLE: The influence of proper mechanical vibrations on some properties of TGS tandel (Paper read at the 2nd International Conference on Piezoelectricity in Liberec on Sept 1, 1965) SOURCE: Chekhoslovatskiy fizicheskiy zhurnal, v. 16, no. 5, 1966, 409-422 TOPIC TAGS: mechanical vibration, tandel, flexural vibration, plane vibration, piezoeffect, permittivity, dielectric nonlinearity, frequency dependence ABSTRACT: In the present paper the existence is proven of mechanical vibrations in TGS tandels in the frequency range from 5 kc/s to 1000 kc/s. A number of resonances were found in the given range of frequencies. Mainly plain and flexural vibrations occur. A study was made of their influence on the course of the

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A Technique for Direct Measurement of Magnetic Anisotropy in Thin Layers

represent measurements with and without the sample and curve 3 is the difference between curves 1 and 2. The lower part of Fig 4 represents the Fourier components of curve 3 in the upper part: one of these components (curve 4) has a period of 2 $\pi$  and it is due to residual eccentricity of the sample, while the second (curve 5) has a period of  $\pi$  and is due to uniaxial anisotropy. The uniaxial magnetic anisotropy constant deduced from curve 5 was  $k^{\text{M}} = 960 \text{ erg/cm}^3$ . There are 4 figures and 3 references, 1 of which is Soviet, 1 German and 1 English.

ASSOCIATION: Institut magnitnykh materialov Germanskoy Akademii nauk

Iyena. Fizicheskiy institut Chekhoslovatskoy Akademii
nauk, Praga (Institute for Magnetic Materials, East German
Academy of Sciences, Jena. Physics Institute of the
Czechoslovak Academy of Sciences, Prague)

SUBMITTED: September 10, 1959

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A Technique for Direct Measurement of Magnetic Anisotropy in Thin Layers

discuss, also, in detail the errors (and methods of avoiding them) due to the following causes: non-uniformity of the magnetic field between the pole pieces, asymmetry of the rotating system (eg due to ferromagnetic inclusions), skewness of the magnetic layer whose anisotropy is measured. Normally the magnetization vector of the layer is parallel to its surface but skewness of the layer as a whole, roughness or scratches on the copper base or presence of ferromagnetic materials on the lateral surfaces of this base may produce components of the magnetization vector at right-angles to the layer surface. This induces surface poles and, when the layer is rotated about the suspension axis during measurements, additional torques will be produced. All these points are discussed in detail and the paper ends with description of determination of anisotropy of a Permalloy (77% Ni) layer 1530 Å thick and 14 mm diameter, deposited in a magnetic field on a heated substrate. The upper part of Fig 4 shows the torque measured as a function of the angular position of the whole suspension with respect to the magnetic field between the pole pieces; curves 1 and 2

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A Technique for Direct Measurement of Magnetic Anisotropy in Thin Layers

magnetic field was obtained by means of a Weiss-type magnet (pole-piece diameter 10 cm, pole gap 3.7 cm). The sample was placed in the almost uniform central portion of the magnetic field in which the whole suspended system could be rotated uniformly about its axis (using a synchronous motor). The suspension consisted of the phosphor bronze wire to which a sample holder was attached. The holder was a Vinidur tube joined to a closed glass tube. The sample (a thin layer) was fixed with paraffin wax to a copper base in the glass tube at right angles to the phosphor bronze wire. By raising and clamping the "Vinidur" tube rotation of the suspension could be stopped. In order to make positioning and removal of the sample easier, the suspension when clamped was tilted. It was important to minimize or avoid all external effects which would introduce stray torques. To avoid mechanical vibrations the instrument was placed on stone foundations. To avoid the effect of air currents the apparatus was placed under a glass bell-jar. These measures avoided i almost completely non-periodic torques. The authors

Card 2/4

67659 sov/126-8-6-6/24 24.2200 Stemme, O., André, V. and Malek, AUTHORS: Schuppel, W.,

TITLE:

A Technique for Direct Measurement of Magnetic

Anisotropy in Thin Layers 7

PERIODICAL: Fizika metallov i metallovedeniye, 1959, Vol 8, Nr 6,

pp 837-846 (USSR)

ABSTRACT:

The authors describe a sensitive instrument (an anisometer) for direct measurement of magnetic anisotropy in thin layers. The anisometer (Fig 1) is similar to instruments used to measure the crystalline anisotropy constants by determination of torque. Since the uniaxial magnetic anisotropy constants are of the order of 1000 erg/cm3 and consequently the maximum magnetic moment of a layer 1000 Å thick and 2 cm2 in area amounts to only 0.02 dyne cm, the instrument should be sensitive enough to measure

torques of 0.001 dyne cm. This sensitivity was achieved using free torsion of a thin (0.07 mm diameter, 34 mm length) phosphor bronze wire. The dimensions of the wire ensured that its torsional deformation remains below its elastic limit. A simple optical device made it possible to measure

very small angles of rotation (several minutes of the arc when the torque is 0.1 dyne cm). The required saturation

CZECHCSLOVAKIA/Magnetism - Ferromagnetism.

Abs Jour

: Ref Zhur Fizika, No 8, 1959, 18029

Author

: Malek, Zdenek; Kamberski, Vladimir

Inst

: \* Physics Institute Czechoslovak Academy of Sciences, Prague, \*\* Mathematical Physics Faculty, Charles

University, Prague, Czechoslovakia

Title

Theory of the Domain Structure of Thin Films of Magneti-

cally Uniaxial on the Materials.

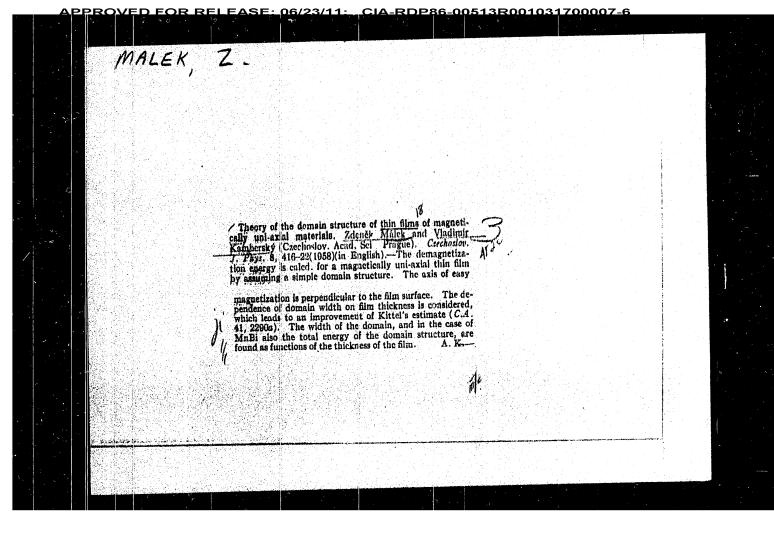
Orig Pub

: Ceskosl. casop. fys., 1958, 8, No 4, 429-434

Abstract

The authors calculate the demognetization energy of a simple model of domain structure of a film of uniaxial ferromagnetic substance, the axis of which is perpendicular to the surface. The width of the domains, and in the case of MnBi the total energy of the domain structure, is expressed in the form of a function of the film

thickness.



CZECHOSLOVAKIA/Magnetism - Experimental Methods of Magnetism

Abs Jour : Ref Zhur - Fizika, No 8, 1958, No 18135

of a small sphere of nickel with diameter of 0.3 mm, magnetized to saturation, with a probe distance of 2 cm from the specimen. If one places in the rotating probe a third coil, whose axis is parallel to the magnetic field, then by measuring the intensity of the magnetic field in an analogous manner,

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it is possible to plot a hysteresis loop by means of this probe. The advantages of the probe compared with the vibra-

tion magnetometer are noted.

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CZECHOSLOVAKIA/Magnetism - Experimental of Magnetism.

Abs Jour : Ref Zhur - Fizika, No 6, 1959, 13147

Author : Kaczer, Jan , Malek, Zdenek

Inst : Title : Rotating Probe for the Measurement of Inhomogeneity of

the Magnetic Field.

Orig Pub : Ceskosl. casop. fys., 1957, 7, No 4, 385-392

Abstract : See Referat Zhur Fizika, 1958, No 8, 18135.

MALEK, Z.

Effect of dislocation on the coercive force of iron.

P. lhó (Ceskoslovenska Morfologie. Vol, r, no. h, 1957, Praha, Czechoslovakia)

Monthly Index of East Furopean Accessions (EFAI) IC. Vol. 7, no. 2

February 1957

및 하지 : 하다 : 사람, 이미슨 사고 나는 이 등 사람이 되었다. 하는 사람이 제**實**하는

CZECHOSLOVAKIA/Magnetism - Ferromagnetism.

Abs Jour

: Ref Zhur - Fizika, No 6, 1959, 13188

Author

: Malek, Zdenek

Inst

: Physics Institute, Czechoslovak Academy of Sciences,

Prague, Czechoslovakia

Title

: Influence of Dislocations on the Coercive Force of Iron.

Orig Pub

: Chekhosl. fiz. zh., 1957, 7, No 3, 335-338

Abstract

: A comparison is made between the Vicena theory on the dependence of coercive force on the density of dislocations, with the experimental results, and good atreement was ob-

tained between the two. See Abstract 13189.

CZECHOSLOVAKIA/Magnetism - Ferromagnetism.

: Ref Zhur - Fizika, No 6, 1959, 13184 Abs Jour

Malek, Zdenek Author

Inst

Concerning the Problem of the Dependence of the Coercive Title

Force on Plastic Deformation.

: Chekhosl. fiz. Zh., 1957, 7, No 2, 244-245 Orig Pub

: A study was made of the influence of the annealing temperature on the dependence of  $\rm H_{\rm C}$  on the plastic deformation. See also Abstract 13186. Abstract

CZECHOSLOVAKIA/Magnetism - Ferromagentism.

: Ref Zhur - Fizika, No 6, 1959, 13186 Abs Jour

Author Malek, Zdenek

: Physics Institute, Czechoslovak Academy of Sciences, Inst

Prague

Title : Dependence of the Coercive Force on Plastic Deformations.

Chekhosl. fiz. zh., 1957, 7, No 2, 152-168 Orig Pub

Abstract : A study was made of the influence of plastic deformation

on H<sub>c</sub> in iron, nickel, and iron-nickel alloys such as Mu-metal and Mo-permalloy. In all the investigated specimens there was observed an interesting anomaly in the dependence of  $\rm H_{\rm C}$  on the plastic deformation. It was indicated that  $\rm H_{\rm C}$  has a particularly smaller value for nickel than is usually cited, and grounds are given for this

difference.

MALEK, Z. Instrument for the precise measurement of coercive forces within a  $10^{-3}$  and  $10^{2}$  oersted. p. 99. (Ceskoslovensky Casopis Pro Fysiku. Vestnik. Vol. 7, no. 1, 1957.) SO: Monthly List of East European Accession (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl. MALEK, Z.

Dependence of coercive forces on plastic defomation. p. 57. (Ceakoslovensky Casopis Pro Fysiku. Vestnik. Vol. 7, no. 1, 1957.)

SO: Monthly List of East European Accession (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

MALEK, 7.

The process of dependence of coercive force on plastic deformation.

P. 219 (Ceskoslov nska Morfologie. Vol. 5, no. 4, 1957 Praha, Czechoslovakia)

Monthly Index of East European Accessions (EFAI) LC. Vol. 7, no. 2, February 1958

MALEK, Z. New results of the coercive force theory. p. 572. (CESKOSLOVENSKY CASOPIS PRO FYSIKU, Vol. 6, No. 5, Sept 1956, Praha, Czechoslovakia) SO: Monthly List of East Suropean Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

MALEK, Edenik

(ZECHOSLOVAKIA/Magnetism - Ferromagnetism

F-4

Abs Jour

: Referat Zhur - Fizika, No 5, 1957, 11984

Author

Malek Zdenik

Inst

Title

Modern Progress in the Theory of the Coercive Force.

Orig Pub

: Ceskosl. casop. fys., 1956, 6, No 5, 572-593

Abstract

: Survey. Bibliography, 75 titles.

Card 1/1

MALEX, Z.

\*Method of Measuring in Bain's Diagram Completed by Lines Ms and Mf<sup>N</sup> P. 104
(CESKOSIOVENSKY CASOPIS PRO FYSIKU Vol. 4, No. 1, Zeb, 1954 - Praha, Czech.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 4,

April 1955, Uncl.

LUKASH, B.; GEYZIAR, M.; LIBIKH, Ya.; GEROL'D, M.; GOFFMAN, Ya.;

MAIEK, Ya.

Gemparative study of the distribution of combined "antibiolymphin"

(streptomycin, neomycin) preparations and tetracycline in the bodies of experimental animals after their parenteral administration. Antibiotiki 7 no.275-79 Mr '62.

1. Kafedra epidemiologii Voyennogo meditsinskogo issledovatol'skogo instituta i Institute usovershenstvovaniya vradhey imeni I.Ye. instituta i Institute usovershenstvovaniya vradhey imeni I.Ye. Purkine, Gradets Kralove i Issledovatel'skiy institut artibiotikov, Roztoki u Pragi.

(ANTIBIOTICS)

(TETRACYCLINE)

Poland COUNTRY

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CATEGORY

ABS. JOUR. : RZKhim., No.

88870 1959, No.

AUTHOR

11151.

: Malek, W.

Determination of Vegetable and Synthetic TITLE

Tanning Agents Between Operations in the

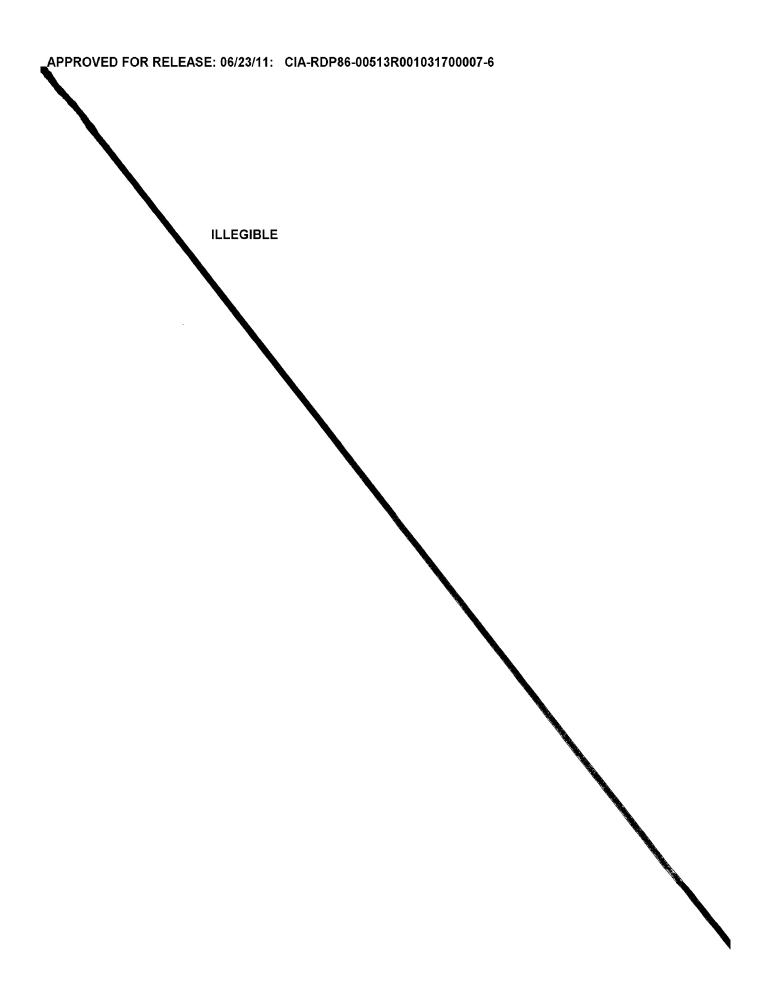
Supervision of Leather Manufacture

ORIG. PUB.: Przegl. skorzany, 1958, 13, No 9, 219-220

: Supervision between operations requires the ABSTRACT use of simple and rapid methods of analysis which permit ascertaining the nature of production irrespective of the degree of accuracy of absolute values secured by these methods. A procedure is described for determining the contents of vegetable and synthetic tanning agents in the course of supervision between operations: preparation of analytical solutions of tanning agents and determination of the content of tannins therein on the basis of specific gravity of the solution; of a modification of the method of shaking in determining tannins content; apparatus and procedure of determination, and corrections which must be made in the procedure when content of synthetic tanning agents is being determined. CARD:

M. Lyuksemburg.

MALEK, Vladimir, Inz. The use of potential analogies in designing filters with image parameters. Slaboproudy obzor 21 no.2:79-83 '60. (EEAI 9:6) 1. Vyvoj TESIA, Strasnice.
(Impedance (Electricity)) (Electric fulters)



BIRECKA, Ada; KARMOWSKI, Janusz; MALEK, Tadeusz

Distribution of vital capacity in both lungs determined by comparative respiratory densitography and bronchosphrometry in 32 patients. Gruzilea 31 no.61586-591 Je\*63.

1. Sanatorium im. F.Dmierzynskiego, Otwock.

MADEK, R.

"Mossodarska mana Coskoslovenska (Sconomic Man of Czechoslovskia) and its critique."

P. 181 (Ceskoslovenska Ethnografie, Vol. 63, no. 2, 1958, Praha, Czechoslovskia)

Monthly Index of Rast European Accassions (ERAI) D., Vol. 7, no. 7, September 1958

Manual Hadac and others! V resi souck a ladowed. (In the Sountry of Volcances and Glaciers); a book review."

p. 173 (Ceskoslovenska Ethnografie, Vol. 63, no. 2, 1958, Praha, Czechoslovakia)

Monthly Index of East European Accessions (SEAI) 56, Vol. 7, no. 3, September 1958

MALEK, R.

An economic map of Czechoslovakia.

p. 276 (Sbornik) Vol. 62, no. 3, 1957. Fraha, Czechoslovakia.

So: Monthly Index of East European Accessions (EMI) LC, Vol 7, no. 1, Jan 1953

MALEK, R.

The Pescadores. p. 121. SNORNIK. Praha. (Journal issued by the Czechoslovak Geographical Society; with English and Russian summaries. Quarterly) Vol. 60, no. 2, 1955

SOURCE: East European Accessions Last, (EEAL), Library of Congress Vol. 4, no. 12, December 1955

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700007-6

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## CZECHOSLOVAKIA

Prasue, Casopis Lekaru Ceskych, Vol 105, No 47, 25 Nov 66, pp 1273 - 1278 /continued/

than iodine-labelled derivatives or neohydrine (Hg<sup>203</sup>). In a test on a dog, the hot spot corresponded exactly to the ischemic focus. 9 Figures, 2 Tables, 10 Western, 10 Czech references.

2/2

## Cardiovascular Diseases

CZECHOSLOVAKIA

υσο 616.127-005.4-079.2

MALEK, P.; VAVREJN, B.; RATUSKY, J.; KOLC, J.; KROMRAD, L.;
Institute of Clinical and Experimental Surgery (Ustav Klinicke a
Experimentalni Chirurgie), Prague - Krc, Director (Reditel) Prof
Dr B. SPACEK; Research Institute for Medical Application of Radioisotopes (Vyzkumny Ustav pro Vyuziti Radicizotopu v Lekarstvi),
Prague, Director (Reditel) Dr B. VAVREJN; Institute of Organic
Chemistry and Biochemistry, Czechoslovak Academy of Sciences
(Ustav Organicke Chemie a Biochemie CSAV), Prague, Director (Reditel) Member of Academy F. SORM; Institute of Nuclear Research
(Ustav Jaderneho Vyzkumu) Rez near Prague, Director (Reditel) Dr
V. SVAB.

"Further Advances in Topical Diagnosis of Ischemic Lesions of the Myocardium in Vivo."

Prague, Casopis Lekaru Ceskych, Vol 105, No 47, 25 Nov 66, pp 1273 - 1278

Abstract /Authors! English summary modified 7: For the diagnosis of ischemic lesions mercury derivatives of the fluorescein line (Hg 203 or Hg167) are recommended. These derivatives have better RI and RII indexes (torn to normal muscle, torn muscle to blood)

MALEK, P.; HAMMER, J.; ZASTAVA, V.; Pisa, Z.; KOLC, J.; GRAFFNETER, D.

Experimental models of myocardial infarction without opening of the thorax and tetracyclines. Cas. lek. cesk. 104 no.36: 986-990 10 S '65.

1. Ustav klinicke a experimentalni chirurgie v Praze (reditel prof. dr. B. Spacek, DrSc.) a Ustav pro vyzkum chorob obehu krevniho v Praze (reditel prof. dr. J. Brod, DrSc.). Submitted September 1964.

MALEK, P. Transplantation of organs. Cas. lek. cesk. 104 no.32/33:889-894 6 Ag \*65. 1. Ustav klinicke a experimentalni chirurgie v Praze (reditel prof. dr. B. Spacek, DrSc.).

MALEK, P.; KOLC, J.; ZASTAVA, V. Tetracycline antibiotics, and calciphylaxis. Cas. lek. cenk. 104 no.12:333-335 26 Mr 65. 1. Ustav klinicke u experimentalni chirurgie, Praha-Krc, (reditel: prof. dr. B. Spacek, DrSc.).

MALEX,P.; HAMMER, J.; ZASTAVA, V.; PISA, Z. Technical assistance: KOLC, J.

MALEX,P.; HAMMER, J.; ZASTAVA, V.; PISA, Z. Technical assistance: KOLC, J.

The diagnostic significance of fixation of tetracycline antibiotics in infarcted myocardium. Cor vasa 7 no.2:125-120 165.

1. Institute for Clinical and Experimental Surgery and Institute
for Cardiovascular Research, Prague, Czechoslovakia.

MALEK, P.; ZASTAVA, Vl.; KOLC, J.; ZAK, Fr.

On the possible diagnosis of malignant tumors by means of tetracycline antibiotics. Cas. lek. cegk. 102 no.1:16-20 4 Ja '63.

1. Ustav klinicke a experimentalni chirurgie v Praze, reditel prof. dr. B. Spacek, DrSc. — II patologickoanatomicky ustav fakulty vseobecneho lekarstvi KU Vraze, prednosta prof. dr. V. Jedlicka, DrSc.

(NEOPLASMS) (TETRACYCLINE) (DIAGNOSIS)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700007-6

MALEK, P.; DEMELOVA, J.; ZASTAVA, V.; KOLC, J.

Problems of tetracycline antibiotics in the prevention and treatment of experimental gas gangrene. Rozhl. chir. 42 no.3: 196-200 Mr \*63.

1. Ustav klinicke a experimentalni chirurgie v Praze, reditel prof. dr. B. Spacek, DrSc. Ustav ser a ockovacich latek v Praze, reditel dr. J. Malek.

(GAS GANGRENE) (CHLORTETRACYCLINE)
(ISCHEMIA) (MUSCLES) (WOUNDS AND INJURIES)

MALEK, P.; ROKOS, J.; KOJECKY, Z.; KOLC, J.; PROCHAZKA, P.; ZAK, F.

The special role of tetracycline antibiotics in the prevention and therapy of acute pancreatitis. Rozhl. chir. 42 no.3:174-180 Mr 163.

1. Ustav klinicke a experimentalni chirurgie v Praze, reditel prof. dr. B. Spacek DrSc. II vnitrni klinika lekarske fakulty PU v Olomouci Biologicky ustav CSAV v Praze, reditel akademik I. Malek. II patologickoanatomicky ustav lek. fak. KU v Praze, prednosta prof. dr. V. Jedlicka.

(PANCREATITIS) (TETRACYCLINE) (LIPASE)
(ENZYME INHIBUTORS) (CHLORTETRACYCLINE)

15

MALEK, P.; ZASTAVA, VI.; KOIC, J.; KOCANDRLE, V.; DOBRKOVSKY, M.

On the problem of the diagnostic use of tetracycline antibiotics. Rozhl. chir. 42 no.3:155-160 Mr '63.

1. Ustav klinicke a experimentalni chirurgie v Praze, reditel prof. dr. B. Spacek, DrSo. Oddel. popalenin kliniky plasticke chirurgie lekareke fakulty hygienicke KU v Praze, prednosta akademik F. Burian.

(TETRACTCLINE) (NEOPLASM DIAGNOSIS) (ISCHEMIA) (NECROSIS) (INPLAMMATION) (BURNS)

(MYOCARDIAL INFARCTION) (FLUORESCENCE)

## Frague, Casoris Libera Chiled, W. T. Serie et al. 1915. In 1920. a commulate and where corresponder on to there may were astale the deterors. In fatty merceds of pastern attentiation is very might the times troughest returned file in season which Then there is defined a setting file in season when the with Then there is affected in the total time, and seld of the market do not a season and of the result of pasternal defined by a season with the season and a season as a season of the respective and file pasternal defined in the season was an both false positives and false respective mention inchanges an account of specificity of no rise. Table, the season of School that another group? References.

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